

ABSTRACT OF THE DISCLOSURE

The invention relates to a method for calibrating 3D image sensors. Work tolerances, temperature variations and aging processes result in that the various pixels in a receiving array deviate from one another to different degrees. The aim of the invention is therefore to calibrate the entire receiving array with respect to every pixel. During operation of the 3D image sensor there is usually no reference scene available with which every pixel could be calibrated based on known phase relations. According to the invention, the entire receiving array is illuminated at defined intervals exclusively with one modulated light source. Alternatively, the emitted light source can be used via a deflection device. Two different distances can be simulated by carrying out two calibrating measurements with different phase relations between emitted and received signal, thereby making it possible to detect distance-related errors for every pixel individually.

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